## EAST Search History

| Ref # | Hits  | Search Query  | DBs                          | Default<br>Operator | Plurals | Time Stamp          |
|-------|-------|---|------------------------------|---------------------|---------|---------------------|
| L1    | 482   | 376/158,159.ccls.   | US-PGPUB;<br>USPAT           | OR                  | ON      | 2008/04/18<br>08:47 |
| L2    | 439   | 250/370.05,390.01.ccls.   | US-PGPUB;<br>USPAT           | OR                  | ON      | 2008/04/18<br>08:47 |
| L3    | 878   | L1 L2   | US-PGPUB;<br>USPAT           | OR                  | ON      | 2008/04/18<br>08:47 |
| L4    | 332   | 209/576,589.ccls.   | US-PGPUB;<br>USPAT           | OR                  | ON      | 2008/04/18<br>08:49 |
| L5    | 44603 | "209".clas.   | US-PGPUB;<br>USPAT           | OR                  | ON      | 2008/04/18<br>08:49 |
| L6    | 30    | 5 and neutron   | US-PGPUB;<br>USPAT           | OR                  | ON      | 2008/04/18<br>08:49 |
| L7    | 3     | 5 and (PGNAA or (prompt<br>and gamma and neutron<br>and activation and<br>analysis))  | US-PGPUB;<br>USPAT           | OR                  | ON      | 2008/04/18<br>08:50 |
| L8    | 39    | PGNAA   | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2008/04/18<br>08:58 |
| L9    | 94    | (prompt same gamma<br>same neutron same<br>activation same analysis)  | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2008/04/18<br>08:58 |
| L10   | 94    | L8 L9   | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | ON      | 2008/04/18<br>08:58 |
| L11   | 48    | US-20060115037-\$ or US-20040113775-\$ or US-20040113775-\$ or US-20020096363-\$ or US-20030209365-\$ or US-20030209365-\$ or US-20050234647-\$ or US-20050234647-\$ or US-20060173627-\$ or US-20040011775-\$ or US-20040011775-\$ or US-20040011705-\$ or US-20070166169-\$ or US-20070163533-\$ or US-20030056103-\$ or US-20030056103-\$ or US-20030056103-\$ or US-20030056105-\$ or US-20060276969-\$ or US-20060055981-\$ or US-20060055981-\$ or US-20070108962-\$ or US-2008005981-\$ or US-20070108962-\$ or US-2008005981-\$ or US-20070108962-\$ or US-2008005981-\$ or US-20070108962-\$ or US-2008005981-\$ or US-2008005981-\$ or US-20070108962-\$ or US-2008005981-\$ or US-2008005981-\$ or US-20070108962-\$ or US-2008005981-\$ or US-20070108962-\$ or US-2008005981-\$ or US-20070108962-\$ or US-2008005981-\$ or US-200800 | US-PCPUB;<br>USPAT           | OR                  | ON      | 2008/04/18<br>08:58 |

|     |    | 20040130338-\$ or US-20050115313-\$ or US-20080051968-\$ or US-20080031038-\$), did. or (US-4227405-\$ or US-5473158-\$ or US-6648083-\$ or US-6648083-\$ or US-6626135-\$ or US-7168507-\$ or US-6026135-\$ or US-4801421-\$ or US-6393085-\$ or US-6396416-\$ or US-6826964-\$ or US-5400244-\$ or US-7257490-\$ or US-5340060-\$ or US-3638018-\$ or US-366950-\$ or US-547747303-\$ or US-547950-\$ or US-559507-\$ or US-525149-\$ or US-525966-\$ or US-5279366-\$ or US-5279366-\$ or US-5279366-\$ or US-5279366-\$ or US-5279366-\$ or US-5279366-\$ or US-5597042-\$ or US-5080051012-\$ or US-5080051012-\$ or US-5080051012-\$ or US-5279366-\$ or US-5597042-\$ or US-5080051012-\$ or US-5080051012-\$ or US-5080051012-\$ or US-5080051012-\$ or US-5597042-\$ or US-5080051012-\$ or US-5080051 |                    |      |    |                     |
|-----|----|---|--------------------|------|----|---------------------|
| L12 | 50 | (US-20060115037-\$ or US- 20030225531-\$ or US- 200300225531-\$ or US- 20050004763-\$ or US- 200500121618-\$ or US- 20050121618-\$ or US- 20020106047-\$), did. or (US- 5825030-\$ or US-5732115- \$ or US-6150655-\$ or US- 4395633-\$ or US-4493810- \$ or US-5948137-\$ or US- 6157034-\$ or US-5396071- \$ or US-6130931-\$ or US- 6157034-\$ or US-5396071- \$ or US-6130931-\$ or US- 6328700-\$ or US-6011266- \$ or US-4830193-\$ or US- 4884288-\$ or US-4870278- \$ or US-4271361-\$ or US- 4617466-\$ or US-4870278- \$ or US-49793-\$ or US- 4575634-\$ or US-4870278- \$ or US-5192490-\$ or US- 4575634-\$ or US-4970278- \$ or US-5192490-\$ or US- 4575634-\$ or US-4915230-\$ or US- 4575634-\$ or US-4945233- \$ or US-4314155-\$ or US- 7026627-\$ or US-4411858- \$ or US-4314155-\$ or US- 5021653-\$ or US-43030621- \$ or US-4411455-\$ or US- 4171485-\$ or US-4390783- \$ or US-5053620-\$ or US- 4171485-\$ or US-4390783- \$ or US-5053620-\$ or US-   | US-PCPUB;<br>USPAT | OR . | ON | 2008/04/18<br>08:58 |

|     |      | 5471057-\$ or US-5604353-<br>\$ or US-6438189-\$ or US-<br>4810459-\$).did. |                              |    |    |                     |
|-----|------|---|------------------------------|----|----|---------------------|
| L13 | 97   | L11 L12   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/18<br>08:58 |
| L14 | 822  | 3 not (4 L10 L13)   | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/18<br>08:58 |
| L15 | 1    | 10/530769 and carbon  | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/18<br>09:29 |
| L16 | 40   | hageman.xa.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/18<br>09:46 |
| L17 | 1    | "7244902".pn.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/18<br>09:54 |
| L18 | 8059 | 17 and cluster<br>(multivariate)  | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/18<br>09:55 |
| L19 | 1    | 17 and (cluster (multivariate))   | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/18<br>09:55 |
| L20 | 4514 | (baseline and (correction calibration) and spectroscopy)                    | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/18<br>10:09 |
| L21 | 172  | 20 and neutron  | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/18<br>10:09 |
| L22 | 1276 | (baseline same (correction calibration) and spectroscopy)                   | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/18<br>10:09 |
| L23 | 44   | 22 and neutron  | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/18<br>10:10 |
| L24 | 1    | "6657189".pn.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/18<br>10:38 |
| L25 | 1    | 24 and background   | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/18<br>10:38 |
| L26 | 9    | 4 and neutron   | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/18<br>10:54 |
| Si  | 6    | ("2707555" "3781556"<br>"4702379" "4830193"<br>"5162095").pn.               | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/03/06<br>13:49 |

| 2 | 50 | (US-20060115037-\$ or US-    | US-PGPUB; | OR | ON | 2008/03/06 |
|---|----|------------------------------|-----------|----|----|------------|
|   |    |                              | USPAT     |    |    | 13:51      |
|   |    | 20020096363-\$ or US-        |           |    |    |            |
|   |    | 20030114987-\$ or US-        |           |    |    |            |
|   |    | 20030209365-\$ or US-        |           |    |    |            |
|   |    | 20050028586-\$ or US-        |           |    |    |            |
|   |    | 20050234647-\$ or US-        |           |    |    |            |
|   |    | 20060173627-\$ or US-        |           |    |    |            |
|   |    | 20070119243-\$ or US-        |           |    |    |            |
|   |    | 20040011775-\$ or US-        |           |    |    |            |
|   |    | 20050229716-\$ or US-        |           |    |    |            |
|   |    | 20070166169-\$ or US-        |           |    |    |            |
|   |    | 20050135533-\$ or US-        |           |    |    |            |
|   |    | 20070282504-\$ or US-        |           |    |    |            |
|   |    | 20030058103-\$ or US-        |           |    |    |            |
|   |    | 20030146823-\$ or US-        |           |    |    |            |
|   |    | 20060276969-\$ or US-        |           |    |    |            |
|   |    | 20040001570-\$ or US-        |           |    |    |            |
|   | 1  | 20060055981-\$ or US-        |           |    |    |            |
|   |    | 20070108962-\$ or US-        |           |    |    |            |
|   |    | 20040130338-\$ or US-        |           |    |    |            |
|   |    | 20050115313-\$ or US-        |           |    |    |            |
|   |    | 20080051968-\$ or US-        |           | 1  |    |            |
|   |    | 20060031038-\$).did. or (US- |           |    |    |            |
|   |    | 4227405-\$ or US-5473158-    |           |    |    |            |
|   |    | \$ or US-6618322-\$ or US-   |           |    |    |            |
|   |    | 6648083-\$ or US-6725162-    |           |    |    |            |
|   |    | \$ or US-7103982-\$ or US-   |           |    |    |            |
|   | 1  | 7168507-\$ or US-6026135-    |           |    |    |            |
|   |    | \$ or US-4801421-\$ or US-   |           |    |    |            |
|   |    | 6393085-\$ or US-6396416-    |           |    |    |            |
|   |    | \$ or US-6826964-\$ or US-   |           |    |    |            |
|   |    | 5400244-\$ or US-7257490-    |           |    |    |            |
|   |    | \$ or US-5340060-\$ or US-   |           |    |    |            |
|   |    | 3638018-\$ or US-3666950-    |           |    |    |            |
|   |    | \$ or US-4747303-\$ or US-   |           |    |    | ***        |
|   |    | 4827414-\$ or US-4909075-    |           |    |    |            |
|   | į  | \$ or US-5096001-\$ or US-   |           |    |    |            |
|   |    | 5159577-\$ or US-5225149-    |           |    |    |            |
|   | 1  | \$ or US-5250806-\$ or US-   |           |    |    |            |
|   | i  | 5279366-\$ or US-5597042-    |           |    |    |            |
|   | ļ  | \$).did.                     |           |    |    | ***        |

| 83 | 50 | (US-20060115037-\$ or US- 200300225531-\$ or US- 200300225531-\$ or US- 20050004763-\$ or US- 2005001618-\$ or US- 200501618-\$ or US- 200501618-\$ or US- 20020106047-\$).did. or (US- 82525030-\$ or US-5732115-\$ or US-6150655-\$ or US- 4395633-\$ or US-4933810-\$ or US- 6157034-\$ or US-5396071-\$ or US-6130931-\$ or US- 6157034-\$ or US-7006919-\$ or US-6130931-\$ or US- 6328700-\$ or US-6011266-\$ or US-7006919-\$ or US-701260-\$ or US-60328700-\$ or US-60328700-\$ or US-60328700-\$ or US-4575634-\$ or US-4556793-\$ or US-4271361-\$ or US- 484288-\$ or US-4570278-\$ or US-4575634-\$ or US-4970278-\$ or US-4575634-\$ or US-4945233-\$ or US-5192490-\$ or US- 4575634-\$ or US-500781-\$, or US-5007010-\$ or US- 5266712-\$ or US-4411858-\$ or US-4512949-\$ or US-456032010-\$ or US- 4266132-\$ or US-4263098-\$ or US-4314155-\$ or US-430783-\$ or US-5300621-\$ or US-4152596-\$ or US-4171485-\$ or US-430783-\$ or US-5035620-\$ or US-5471057-\$ or US-5603535-\$ or US-56438189-\$ or US-56438189-\$ or US-56438189-\$ or US-56438189-\$ or US- | US-PCPUB;<br>USPAT           | OR | 000 | 2008/03/06          |
|----|----|--|------------------------------|----|-----|---------------------|
|    |    | 4810459-\$).did.   |                              |    |     |                     |
| S4 | 99 | SS 83  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/03/06<br>13:51 |
| S5 | 1  | S2 and S3  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/03/06<br>13:51 |
| S6 | 21 | (force and technology).as.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/04/16<br>15:32 |
| S7 | 99 | (niels and pedersen).in.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/04/16<br>15:32 |
| S8 | 5  | (niels and pedersen and hald).in.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/04/16<br>15:33 |

| S9  | 1   | (jesper and cramer).in.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/16<br>15:33 |
|-----|-----|--|------------------------------|----|----|---------------------|
| S10 | 5   | (anders and evald).in.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/16<br>15:33 |
| S11 | 9   | S8 S9 S10  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/16<br>15:33 |
| S12 | 1   | "4499380".pn.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/16<br>15:40 |
| S13 | 3   | ("3707631"   "4499380"  <br>"5446288").PN. OR<br>("7294846").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/16<br>15:40 |
| S14 | 12  | "5446288" "20020031203"  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/16<br>15:43 |
| S15 | 39  | PGNAA  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/16<br>16:02 |
| S16 | 226 | (prompt and gamma and<br>neutron and activation and<br>analysis)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/16<br>16:03 |
| S17 | 94  | (prompt same gamma<br>same neutron same<br>activation same analysis)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/16<br>16:04 |
| S18 | 94  | S15 S17  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/16<br>16:04 |
| S19 | 48  | (US-20060115037-\$ or US- 20040113775-\$ or US- 20040113775-\$ or US- 2002009635-\$ or US- 20030114987-\$ or US- 20030114987-\$ or US- 20050234647-\$ or US- 20050234647-\$ or US- 2006017362-\$ or US- 20070119243-\$ or US- 20070119243-\$ or US- 20070161619-\$ or US- 20070282504-\$ or US- 20070282504-\$ or US- 20030146823-\$ or US- 20030146823-\$ or US- 2004001570-\$ or US- 20060055981-\$ or US- 20070108963-\$ or US- | US PGPUB;<br>USPAT           | OR | ON | 2008/04/16          |

|     |    | 20050115313-\$ or US-20080051968-\$ or US-20080031038-\$), did. or (US-4227405-\$ or US-6618322-\$ or US-6618322-\$ or US-6618322-\$ or US-7168607-\$ or US-6026135-\$ or US-6066950-\$ or US-74747303-\$ or US-6026135-\$ or US-6066950-\$ or US-4747303-\$ or US-6026135-\$ |                    |    |    |                     |
|-----|----|---|--------------------|----|----|---------------------|
| 820 | 50 | (US-20060115037-\$ or US-2003022551-\$ or US-2003022551-\$ or US-20030202551-\$ or US-20050004763-\$ or US-2005010618-\$ or US-20050101618-\$ or US-20050121618-\$ or US-20050121618-\$ or US-2005012618-\$ or US-20050150055-\$ or US-200503-\$ or US-2005015-\$ or US-200   | US-POPUB;<br>USPAT | OR | ON | 2008/04/16<br>16:05 |

|     |    | \$ or US-6438189-\$ or US-<br>4810459-\$).did.   | -                            |    |    |                     |
|-----|----|--|------------------------------|----|----|---------------------|
| 321 | 97 | S19 S20  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/16<br>16:05 |
| 322 | 50 | (US-20060115037-\$ or US- 20040113775-\$ or US- 20020096363-\$ or US- 20030114987-\$ or US- 20030209365-\$ or US- 20030209365-\$ or US- 200500234647-\$ or US- 200501234647-\$ or US- 20060173627-\$ or US- 20070119243-\$ or US- 20070119243-\$ or US- 200701635533-\$ or US- 20050135533-\$ or US- 200600276969-\$ or US- 200600276969-\$ or US- 20060055981-\$ or US- 20060055981-\$ or US- 20070103962-\$ or US- 20070103962-\$ or US- 20050115313-\$ or US- 20050115313-\$ or US- 20050115313-\$ or US- 2005013683-\$ or US- 2005013683-\$ or US- 200501368-\$ or US- 200501368-\$ or US- 200501368-\$ or US- 20050135-\$ or US- 200501368-\$ or US- 20050136-\$ or US- 200501368-\$ or US- 20050 | US PGPUB;<br>USPAT           | OR | ON | 2008/04/16          |

| \$23 | 50  | (US-20060115037-\$ or US-20030225531-\$ or US-2005004763-\$ or US-2005004763-\$ or US-20050016763-\$ or US-20050016167-\$ or US-2005012618-\$ or US-5005012618-\$ or US-5005012618-\$ or US-50503-\$ or US-5732115-\$ or US-515055-\$ or US-4395633-\$ or US-4395633-\$ or US-498110-\$ or US-5996971-\$ or US-6150934-\$ or US-6150934-\$ or US-6150934-\$ or US-610925-\$ or US-610925-\$ or US-610925-\$ or US-6101265-\$ or US-4830193-\$ or US-617466-\$ or US-480193-\$ or US-61926712-\$ or US-5300781-\$ or US-5192490-\$ or US-5296712-\$ or US-5300781-\$ or US-6132490-\$ or US-6035010-\$ or US-702627-\$ or US-500781-\$ or US-417465-\$ or US-417465-\$ or US-417465-\$ or US-417465-\$ or US-61328-\$ or US-6130781-\$ or US-615300781-\$ or US-61530521-\$ or US-61530621-\$ or US-6153602-\$ | US PGPUE;<br>USPAT           | OR | ON | 2008/04/16<br>16:06 |
|------|-----|--|------------------------------|----|----|---------------------|
| S24  | 99  | S22 S23  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/16<br>16:06 |
| S25  | 83  | S24 not S18  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/16<br>16:06 |
| S26  | 626 | 376/158,159.œls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/16<br>16:39 |
| S27  | 482 | 376/158,159.ccls.  | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/16<br>16:39 |
| S28  | 439 | 250/370.05,390.01.cds.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/16<br>16:39 |
| S29  | 878 | S27 S28  | US-PGPUB;<br>USPAT           | OR | ON | 2008/04/16<br>16:39 |

4/18/2008 11:05:54 AM C:\ Documents and Settings\ mhageman\ My Documents\ EAST\ Workspaces\ 10 cases \ 10\_530769.wsp